



KORSAKOV, O. N.

PA 12/49T50

Chem/Engineering
Mechanics
Computers

Aug 48

"Work of the Seminar on Precision Mechanics and
Computation Technology, Under the Leadership of
Academician N. G. Bruyevich," O. N. Korsakov, 5½ pp

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 8

Seminar was established in January 46. Summarizes
several papers read.

12/49T50

KORSAKOV, O. N.

Cand Tech Sci

Dissertation: "Precision of the Mechanisms
with Straight-Toothed Spur Gears."

24/4/50

Moscow Order of the Labor Red Banner Higher
Technical School imeni N. E. Bauman

**SO Vecheryaya Moskva
Sum 71**

BONDARENKO, M.G. [Bondarenko, M.H.]; VORONEZHSKIY, V.I. [Voronezh's'kiy,
~~APPROVED FOR RELEASE: 06/14/2000; CIA-RDP86-00513R000824920017-8~~
0.0.; KREMINSKAYA, Ye.D. [Kremin's'ka, Ye.D.]; KUKTA, G.M. [Kukta, H.M.],
Inzh.-mekhan.; PIVOVAR, S.G. [Pivovar, S.H.]; SOLOVEY, V.I.; OLEFIRENKO, G.A. [Olefirenko, H.A.], red.; HULENKO, O.I. [Hulenko, O.I.],
tekhn.red.

[New agricultural machines] Novi sil's'kohospodars'ki mashyni.
Kyiv, Dersh.vyd-vo sil's'kohospodars'koi lit-ry URSR, 1959. 231 p.
(MIRA 13:4)
(Agricultural machinery)

SOV/112-57-9-18334

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9, p 29 (USSR)
AUTHOR: Korsakov, P., Fedorovich, G.

TITLE: Quick-Combustion Furnaces as a Source of Fuel Economy
(Topki skorostnogo goreniya — istochnik ekonomii topliva)

PERIODICAL: Stroit. materialy, izdeliya i konstruktsii, 1956, Nr 8, pp 15-16

ABSTRACT: For 1956, 170,340 tons of reference fuel consisting largely of production waste, such as sawdust, slabs, wood shavings, and battens, has been allotted for Glavstandartdom enterprises. The boilers at these enterprises have pile-type furnaces and inclined fire-grate furnaces; the boiler capacity decreases as the humidity of fuel increases. These furnaces are clumsy and bulky and in most cases are partly embedded in the ground, which requires their hydroinsulation; a lot of refractory brick and cast iron is necessary for building such furnaces. Over the last five years, new quick-combustion furnaces invented by V. V. Pomerantsev (see figure) and intended for burning wooden waste having up to 55% moisture content have proved fairly successful

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SOV/1112-57-9-18334

Quick-Combustion Furnaces as a Source of Fuel Economy

in operation. Fuel (1) is fed by conveyer into the shaft (2) and, as it burns away in the active zone, the fuel sinks and passes the throat (3) of the shaft. The active combustion zone (6) is situated under the throat. Products of wooden thermal decomposition and water vapor enter the second chamber (5), which receives additional air through the port (e) in the roof and receives secondary air through port (d) in the lower part of the chamber. Grating (4) situated between the shaft and the volatile-product combustion chamber precludes fuel entrainment, even under high-forcing conditions (2-10 million kilocal/m²·hour) in small-size furnaces and even at the high speed of gases through grating meshes. With a fuel moisture content of up to 55%, the air-excess factor is under 1.3-1.5. In small boilers and locomobiles, the grating is made of refractory brick; in medium-size and large boilers, of pipes connected in the boiler's circulation. The furnace permits utilization of chips, sawdust, etc., for power and technological needs, and yields 2 tons of steel, 40 kg of tar, and 15 kg of wood vinegar powder from each cubic meter of such fuel.

I.V.M.

Card 2/2

BOLDYREV, G.P.; VOGMAN, D.A.; NOVOKHATSKIY, I.P.; VERK, D.L.; DYUGAEV, I.V.; KAVUN, V.M.; KURENSKO, A.A.; UZBEKOV, M.R.; ARSEN'YEV, S.Ia.; YEGORKIN, A.N.; KORSAKOV, P.F.; KUZ'MIN, V.N.; STRELETS, B.A.; PATKOVSKIY, A.B.; BOLESLAVSKAYA, B.M.; INDENBOM, D.B.; FINKEL'SHTEYN, A.S.; SHAPIRO, I.S.; LAPIN, L.Yu.. Prinimali uchastiye: NEVSKAYA, G.I.; FEDOSEYEV, V.A.; KASPILOVSKIY, Ya.B., ZERNOVA, K.V.. BARDIN, I.P., akademik, otv.red.; SATPAEV, K.I., akademik, nauchnyy red.; STRUMILIN, akademik, nauchnyy red.; ANTIPOV, M.I., nauchnyy red.; BELYANCHIKOV, K.P., nauchnyy red.; YEROFEEV, B.N., nauchnyy red.; KALGANOV, M.I., nauchnyy red.; SAMARIN, A.M., nauchnyy red.; SLEDZYUK, P.Ye., nauchnyy red.; KHLEBNIKOV, V.B., nauchnyy red.; STREYS, N.A., nauchnyy red.; BANKVITSER, A.L., red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Iron ore deposits in central Kazakhstan and ways for their utilization] Zhelesorudnye mestorozhdeniya TSentral'nogo Kazakhstana i puti ikh ispol'sovaniia. Otvetstvennyi red. I.P.Bardin. Moskva, 1960. 556 p.

(MIRA 13:4)

1. Akademiya nauk SSSR. Meshdurvedomstvennaya postoyannaya komissiya po zhelesu. 2. Gosudarstvennyy institut po proyektirovaniyu gornykh predpriyatiy zhelesorudnoy i margantsevoj promyshlennosti i promyshlennosti nemetallicheskikh iskopayemykh (Giproruda) (for Boldyrev, Vogman, Arsen'yev, Yegorkin, Korsakov, Kuz'min, Strelets,
(Continued on next card)

BOLDYREV, G.P.--(continued). Card 2.

3. Institut geologicheskikh nauk AN Kazakhskoy SSR (for Novokhatskiy).
4. TSentral'no-Kazakhstanskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedor SSSR (for Verk, D'yugayev, Kavun, Kurenko, Uzbekov).
5. Nauchno-issledovatel'skiy institut mekhanicheskoy obrabotki poleznykh iskppayemykh (Mikhanobr) (for Patkovskiy).
6. Gosudarstvennyy institut proyektirovaniya metallurg.zavodov (Gipromez) (for Boleslavskaya, Indenbom, Finkel'shteyn, Nevskaya, Fedoseyev, Karpilovskiy).
7. Meshduvedomstvennaya postoyannaya komissiya po zhelezu AN SSSR (for Shapiro, Zernova, Kalganov).
8. Gosplan SSSR (for Lapin).
(Kazakhstan--Iron ores)

KORSAKOV, P.F., inzh.; SHASTINA, S.V., inzh.

Efficient types of drilling rigs for the rock products
industry. Sbor. trud. VNIInerud no.4:3-32 '65.

(MIRA 18:11)

GLUSKIN, L.I., kand. tekhn. nauk; KORSAKOV, P.F., gornyy inzhener;
KOZHEVNIKOV, A.A., gornyy inzhener

Studying the efficiency of blasting small diameter, inclined
borehole charges in gneissic granite. Vzryv. delo no.54/11:
137-145 '64. (MIRA 17:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh
stroitel'nykh materialov i gidromekhanizatsii.

KORSAKOV, P.F., inzh.

Value of the coefficient for spacing borehole charges in instantaneous blasting in hard rock. Sbor. trud. VNII Nerud no.2:83-92 '62.
(MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnykh stroitel'nykh materialov i gidromekhanizatsii.
(Blasting)

9.2585 (also 1144)

20522
S/109/61/006/009/005/018
D201/D302

AUTHORS: Shpolyanskiy, V.A., Tyufyakin, L.S. (Deceased), and
Korsakov, P.P.

TITLE: Automatic delayed phase frequency control

PERIODICAL: Radiotekhnika i elektronika. v. 6, no. 9, 1961,
1468 - 1481

TEXT: The transfer function and stability of automatic phase control is considered first (Figs. 1 and 2). The transfer function $W(p)$ in operator notation is used of a system linearized for small deviation from synchronism, induced by random changes in the controlled generator frequency or by fluctuation noise. The inertia τ_3 of the system, introduced by IF amplifiers can be in simplified form assumed to be

$$\tau_3 = \frac{n}{\pi \Delta f_{0.7}} \sqrt{\sqrt[n]{2} - 1} \quad (1)$$

where K - the maximum amplification; hence, (Fig. 1)

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$$W(p) = \frac{1}{\tau_3 p} \quad (3)$$

$$1 + \frac{pe}{\Delta \omega_s K_f(p)}$$

can be obtained, where $\Delta \omega_s$ - locking range of the system to the product of maximum transfer coefficients of all stages in synchronism, $K_f(p)$ - the normalized transfer coefficient of the LF filter. Substituting into (3) the operator transfer coefficient of the proportional integrating filter and going over dimensionless parameters

$$W(p_1) = \frac{\Delta_2 p_1 + 1}{\Delta_1 p_1^2 e^{\Delta_3 p_1} + p_1(\Delta_2 + e^{\Delta_3 p_1}) + 1} \quad (4)$$

is obtained where

$$p_1 = \frac{p}{\Delta \omega_s} = p\tau; \quad \tau = \frac{1}{\Delta \omega_s}; \quad \Delta_1 = \frac{\tau_1}{\tau}; \quad \Delta_2 = \frac{T_2}{\tau}; \quad \Delta_3 = \frac{T_3}{\tau}. \quad (4a)$$

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Automatic delayed phase ...

Using the Mikhaylov stability criterion [Abstractor's note: Criterion is given, but it is actually a graphical stability criterion for the zeros of a polynomial] it is found that the system is stable if the delay does not exceed the value of

$$\Delta_{\text{imp}} = \frac{\frac{\pi}{2} - \arctg \beta(\Delta_1; \Delta_2) + \arctg \eta \beta(\Delta_1; \Delta_2)}{\beta(\Delta_1; \Delta_2)}, \quad (5)$$

where

$$\beta(\Delta_1; \Delta_2) = \sqrt{\frac{(1 - \Delta_2^2)^2 + 4\Delta_1^2 - (1 - \Delta_2^2)}{2}};$$

$$\eta = \frac{\Delta_2}{\Delta_1}.$$

For an integrating filter ($\Delta_2 = 0$) Eq. (5) gives the wellknown value of critical delay time in an automatic phase control system. It is shown that the use of a proportional integrating filter increases the critical value of delay time, compared with that of an integrating filter system. It is of interest in some practical cases to know the dependence of the critical value of the pass band

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of the n-th stage IF amplifier on the parameters of the LF filter. This dependence is shown graphically indicating that as far as stability is concerned the minimum pass band could be considerably narrower than the synchronization range of the system. The interference killing feature of the automatic phase frequency control is considered next. It is assumed that the interference is in the form of a fluctuation of voltage in the mixer IF amplifiers stage. For a given power of the signal P_s and a given noise factor F, the filtering properties of a pulse control system are determined by the noise band given by

$$\Pi_n = \int_0^\infty /N(j\omega)^2 /W(j\omega)^2 d\omega \quad (13)$$

which produces a dispersion of the phase

$$\Delta\theta^2 = \frac{kTF}{2\pi P_s} \Pi_n \quad (12)$$

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where k is the Boltzmann constant and T - absolute temperature. When the IF passband is considerably wider than that of the closed loop of phase control $[N(j\omega)^2 \approx 1]$ for an integrating filter

$$\Pi_T = \frac{1}{\tau_0} \int_0^\infty \frac{d\xi}{1 + 2\xi \sin \Delta_0 \xi + (1 - 2\Delta_0 \xi \cos \Delta_0 \xi) \xi^2 + \Delta_1^2 \xi^4} \quad (14)$$

is given, where ξ - dimensionless frequency signal $\xi = \omega / \Delta \omega_s = \omega \tau$. To evaluate the influence of delay on the magnitude of the efficient noise band it is necessary to calculate the integral in Eq. (14). It is shown that in an automatic phase control system with an integrating filter the noise band depends essentially on the magnitude of the constant Δ_1 of LF filter. A similar effect is produced in a system with a proportional integrating filter, for which the noise band is determined by

$$\Pi_n = \frac{1}{\tau} \int_0^\infty \frac{(1 + \Delta_1^2 \xi^2) d\xi}{1 + (1 + \Delta_1^2) \xi^2 + \Delta_1^2 \xi^4 + 2\xi^2 (\Delta_1 - \Delta_0) \cos \Delta_0 \xi - 2\xi (1 + \Delta_1 \Delta_0 \xi) \sin \Delta_0 \xi} \quad (16)$$

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Automatic delayed phase ...

In certain cases the passband of IF amplifiers is comparable with the passband of the whole system. The author points out that it is possible for the properties of the filtering of the phase control system to be improved by considerable decrease of the IF passband with respect to the passband of the closed loop system and this could be applied to any other IF amplifier arrangement. The quality of the automatic control system is considered last. It may be seen that in an automatic phase control system with integrating filter the low frequency transient has an oscillation character and that the delay in the loop decreases the time lag of phase control. The theory presented by the author was applied to an experimental arrangement of an automatic phase control of the frequency of oscillations of a klystron generator working at $\lambda = 15$ cm range. The reference signal was supplied by the 78th harmonic of a crystal stabilized oscillator working at $f_0 = 26.5$ mc/s. The signal power P_s was of the order of 1 microwatt. The arrangement made it possible to tune the klystron generator within 60 Mc/s with a locking range of $\Delta\omega_3 = 5$ mc/s and rise time $t_{rt} = 10$ microsecond. The fre-

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S/109/61/006/009/005/018
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Automatic delayed phase ...

quency characteristics of the closed loop system of the automatic phase control with proportional integrating filter are shown for different values of η and time constants Δ_1 ; the discrepancies between theoretical and experimental values do not exceed 15 % and there is a good qualitative confirmation of influence of Δ_1 and

Δ_2 on the frequency response of the filtering system. A graph shows that the value of percent regulation in the system decreases with the decrease of the time constant Δ_1 of the filter and with the increase of Δ_2 . The increase in Δ_2 shows also a faster response to the system, e.g. a better regulation characteristic. The experiment is said to be therefore in good overall agreement with theory. There are 17 graphs, and 11 references: 9 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: T.S. George, Analysis of synchronizing systems for interlaced colour television Proc. I.R.E. 1951, 39, 12; W.J. Gruen, Theory of AFC Synchronization Proc. I.R.E. 1953, 41, 8.

SUBMITTED: March 1, 1960

Card 7/8

UX

IBRAGIMOV, Z.S.; KORSAKOV, S.P.

Reservoir properties of terrigenous sediments of the Cretaceous
of the Southern Mubarek structure. Uzb. geol. zhur. 7 no.4:
39-43 '63. (MIRA 16:10)

1. Institut geologii i razrabotki neftyanykh i gazovykh mest-
rozhdeniy AN UzSSR.
(Uzbekistan—Oil sands)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824920017-8

KORGAKOV, S.?

Gas bearing rocks in the South-Mutunay gas field. Trudy
VNIIGE no.20/28481-187 Vol. (MIRA 17:8)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824920017-8"

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824920017-8

KORSAKOV, S.P.; KHANIN, A.A.

Physical properties of reservoir rocks in the Gazli field. Trudy
VNIIGAZ no.16/24:71-83 '62. (MIRA 15:8)
(Gazli region—Gases in rocks)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824920017-8"

KORSAKOV, S. P.

Gas rocks of the Gazli deposit. Razved. 1 okh. nedr 28 no. 5:6-11
(MIRA 15:10)
My '62.

1. Trest "Usbekneftegasrazvedka".

(Gazli region—Gases in rocks)

KORSAKOV, S.S.

Two introductory lectures of S.S. Korsakov. Zh. Nevropat. Psichiat., '52,
52, no.1, 7-11.
(MLRA 5:2)
(PsA 27, no.11:7869 '53)

KORSAKOV, S.S.

POLYAKOV, D.L., inzhener, redaktor; BATURIN, V.V., kandidat tekhnicheskikh nauk, redaktor; BORISOV, V.P., inzhener, redaktor; GOVOROV, V.P., inzhener, redaktor; MATS, Ya.M., inzhener, redaktor; RYVKIN, Kh.I., kandidat tekhnicheskikh nauk, redaktor; TURKUS, V.A., dotsent, redaktor; KORSAKOV, S.S., retsenzent; UFIMTSEV, G.N., retsenzent.

[Manual for planning heating and ventilation systems of industrial enterprises] Spravochnik po proektirovaniyu otopleniya i ventiliatsii promyshlennykh predpriyatiy. [Redkollegia D.L. Poliakov i dr. Redaktor V.A. Turkus] Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953-
(MIRA 7:6)

1. Leningrad, Proyektnyy institut ministerstva stroitel'stva.
(Heating--Handbooks, manuals, etc.) (Ventilation--Handbooks, manuals, etc.)

KORSAKOV, Sergey Sergeyevich, psichiatr; BANSHCHIKOV, V.M., professor;
POPOV, V.A., professor; ROKHLIN, L.L., redaktor; SENCHILO, K.K.,
tekhnicheskiy redaktor.

[Selected works] Izbrannye proizvedeniia. Moskva, Gos. izd-vo med.
lit-ry, 1954. 770 p. (MIRA 7:7)

1. Chlen-korrespondent AMN SSSR (for Popov)
(Psychiatry)

KORSAKOV, V.D.

PHASE I BOOK EXPLOITATION SOV/3673

Vedeneyev, Nikolay Petrovich, Aleksandr Ivanovich Volchenkov, and
Vasiliy Dmitrievich Korsakov

Vyrubnyye shtampy, armirovannyye tvrdym splavom, i tekhnologiya ikh
izgotovleniya (Manufacture of Sintered-Carbide Blanking Dies)
Leningrad, 1958. 67 p. (Series: Informatsionno-tehnicheskii listok,
no. 28-31, Elektricheskiiye metody obrabotki materialov) 6,200 copies
printed.

Sponsoring Agencies: Leningrad. Dom nauchno-tehnicheskoy propagandy and
Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znanii RSPFR.

Ed.: Sh. D. Achkinadze, Engineer; Tech. Ed.: V. L. Gvirtz.

PURPOSE: This booklet is intended for metal-cutting machine-tool operators,
tool- and die-makers, and mechanical engineers and designers.

COVERAGE: The book deals with the use of carbide inserts in blanking dies.
Increases in wear resistance and die life made possible by the use of
such inserts are discussed. Manufacturing techniques and special methods
of die construction are presented. A description is given of the use of
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Manufacture of Sintered Carbide Blanking Dies

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carbide dies for blanking stator plates and other elements of electrical equipment. No personalities are mentioned. There are 6 references: 5 Soviet and 1 German.

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AVAILABLE: Library of Congress

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VK/PW/gap
7-7-60

VEDENEYEV, Nikolay Petrovich; VOLCHENKOV, Aleksandr Ivanovich;
KORSAKOV, Vasiliy Dmitriyevich; NOVGORODOV, Aleksandr Stepanovich;
CHERNYAKOVA, I.Z., insh., red.; BMLOGUROVA, I.A., tekhn.red.

[Hard-alloy blanking dies] Tverdosplavnye vyrubnye shtampy.
Leningrad, 1960. 30 p. (Leningradskii dom nauchno-tekhnicheskoy
propagandy. Obmen peredovym opyтом no.18, Seriya: Kholodnaia
shtampovka, vyp.2).
(Punching machinery)

KORSAKOV, Vasiliy Dmitriyevich; LEVIN, Ye.M., red.

[Experience in the use of the EK-340 epoxy compound and
quick-setting plastics in the manufacture of attach-
ments] Opyt primeneniia epoksidnogo kompaunda EK-340 i
bystrotverdeishchikh plastmass pri izgotovlenii prispo-
soblenii. Leningrad, 1964. 17 p. (MIRA 17:11)

KORSAKOV, Vasiliy Dmitriyevich; DAGELAYSKAYA, N.A., red.

[Using the EK-340 epoxy compound and quick-hardening
plastics in making dividing dies] Opyt primeneniia epoksid-
nogo kompaunda EK-340 i bystrotverdeiushchikh plastmass pri
izgotovlenii razdelitel'nykh shtampov. Leningrad, 1964.
(MIRA 17:11)
33 p.

EWT(c) IJP(c)/ASD(a)-5 AFETR/ECD(dp)/ESD(gs) R
N VR AR4041532 S.0044764, 000, 000, B128-B126

SOURCE: Ref. zh. Matematika, Abs. 5B577

AUTHOR: Korsakov, V. F.; Aranson, S. Kh.; Burmistrova, N. M.

TITLE: On a numerical method of solution on an electronic computer for a system of two finite equations, applicable to problems of automatization of technical design (numerical control).

CITED SOURCE: Tr. Proyektn. tekhnol. i n.-i. in-ta, Volgo-Vyatsk. sovnarkhoz.
vy*p. 2, 1963, 51-64

TOPIC TAGS: numerical method, electronic computer, two finite equation, automatization technological design, numerical control

TRANSLATION: In setting up an algorithm for applying an electronic computer to the technical design of mechanical manufacturing processes, one needs to determine from given coded blueprints the coordinates of the points of junction of

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ACCESSION NR: AR4041532

elements of the detail contours, arcs and line segments. The authors consider a method of solution on an electronic computer of a system of the equations which was applied to the determination of the parameters of the contour for preparation by drafting. The number of the equations is equal to the number of junction points of arcs and straight lines and it reduces to a system of non-linear equations.

SUB CODE: MA

ENCL: 00

ARANSON, S. Kh.; KORSAKOV, V.F.; AVIEYEV, V.V.

Calculating parameters of a ship hull using an electronic
computer for building technological patterns without lofting.
Trudy Proek. tekhn. i nauch.-issl. inst. no.2165-192 '63
(MIRA 17-7)

KORSAKOV, V. G.

KORSAKOV, V.G.

"Lignofel" is a perfect substitute for bronze. Tekst.prom. 14
no.5:50-51 My '54. (MIRA 7:6)

1. Nachal'nik Russkogo metallurgicheskogo obshchestva pryadil'-
ney fabriki i'nokombinata "Krasnaya tekstil'shchitsa".
(Wood, Compressed)

KORSAKOV, V.I.; LETOV, L.K.

"Construction catalog" as a form of reference book of materials.
NTI no.7;12-14 '65. (MIRA 18:9)

BENUA Yuliy Yul'yevich; KORSAKOV, Vadim Mikhaylovich; ABDEYEV, G.K.,
kand. tekhn. nauk, retsenzent; LEPINSKIY, V.A., inzh.,
retsenzent; ASHIK, V.V., prof., nauchnyy red.; STOLYARSKIY,
L.L., red.; KRYAKOVA, D.M., tekhn. red.

1965

[Vessels on an air cushion] Suda na vozdukhnoi podushke. Lenigrad, Sudpromgiz, 1962. 119 p.
(Ground-effect machines) (MIRA 16:3)

BOOK EXPLOITATION

JR/

11
BT!

Mikhail Aleksandrovich Koreakov, Vadim Mikhaylovich Kaganer, Ykov.

Metallicheskiye ploshchadki i piersy. 1986. 112 s. 22x30 cm.

service craft, floating dry dock, marine equipment

DISCHARGE: The book is a generalization on experience in the designing, production of metal docks. Theoretical, empirical data on vessel

strength of docks conducted during last 15 years are included.

Basic data determining parts, weight of floating docks, formulas
and coefficients required for calculating strength of docks.
An additional chapter is dedicated to the design of assignments
of floating docks for various types of ships.

The book is intended for students, engineers, designers, teachers
of building higher technical schools, universities and technical

L-4556-65
AM-012697

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1. The main hull construction - - 24	
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and their function as storage

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OTHER: 375

Card 3/3

KORSAKOV, V.P.

Traumatic shoulder dislocations. Fel'dsher & akush. no. 12:29-33
Dec 1952. (CLML 23:3)

KORSAKOV, V.P.

Method of fixation of shoulder dislocation. Khirurgiia no.2:77-78
F '54. (MIRA 7:5)

1. Iz kliniki obshchey i gospital'noy khirurgii (zaveduyushchiy - professor
A.N.Velikoretskiy) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo
ordena Lenina meditsinskogo instituta. (Shoulder--Dislocation)

PASHKOV, Aleksandr Nikolayevich; KORSAKOV, Vladimir Petrovich, Prinima-
li uchastiye: DEM'YANOV, F.M.; MALYUTIN, S.S.; BABKIN, V.I.,
inzh., retsenzent; KAPOTOV, A.P., red.; KRASAVINA, A.M., tekhn.
red.

[Manual for checkers of radio measurement devices] Poveriteliu
radioizmeritel'nykh priborov. Pod obshchei red. F.M.Dem'ianova.
Moskva, Voenizdat, 1962. 453 p. (MIRA 15:8)
(Radio measurements--Handbooks, manuals, etc.)

KORSAKOV, V.S.

Tekhnologiiia gidromashinostroeniia; vodianye turbiny, tsentrobereznye i porshnevye
nasosy. Moskva, Mashgiz, 1948. 165, (3) p. diagrs.

Bibliography: 1 p. at end.

Technique of hydraulic machine building; water turbines, centrifugal and piston
pumps.

DLC: TJ840.K6

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of
Congress, 1953.

KORSAKOV, V.S.

MASHEVICH, Z.A., inzhener; MISHIN, A.N., inzhener, retsenzent [deceased];
GINZBURG, N.Ya., inzhener, retsenzent; USATOV, G.A., inzhener,
retsenzent; KORSAKOV, V.S., dotsent, kandidat tekhnicheskikh nauk,
redaktor; MODITV, B.I., tekhnicheskiy redaktor.

[Technology of steam engine construction] Tekhnologiya lokomobile-
stroeniia. Moskva, Gos.nauchno-teknicheskoe izd-vo mashinostroit.
i sudostroit. lit-ry, 1953. 543 p. (MIRA 8:4)
(Steam engines—Construction)

KORSAKOV, VLADIMIR SERGEYEVICH

KORSAKOV, Vladimir Sergeyevich

KORSAKOV, Vladimir Sergeyevich - Academic degree of Doctor of Technical Sciences, based on his defense, 20 June 1955, in the Council of the Moscow Order of Labor Red Banner Higher Technical School inemii Bauman, of his dissertation entitled: "Errors in working processes, caused by deformations of the technological system." For the Academic Degree of Doctor of Sciences

SO: Byulleten' Ministerstva Vyshego Obrazovaniya SSSR, List No. 2, 21 January 1956,
Decisions of the Higher Certification Commission concerning academic degrees
and titles.

KORSAKOV, I.S., kandidat tekhnicheskikh nauk, dotsent.

Effect of the shape of chuck cams on the deformation of thin-walled rings. [Trudy] MVTU no.44:117-141 '55. (MIRA 9:6)
(Chucks) (Machine-shop practice)

BELETSKIY, D.G., kandidat tekhnicheskikh nauk; KORSAKOV, V.S., kandidat tekhnicheskikh nauk, dotsent, retsenzent; SHVARTSEBOLD, B.I., kandidat tekhnicheskikh nauk, retsenzent; VOSKRESENSKIY, N.N., inshe-
ner, redakte; POPOVA, S.M., tekhnicheskiy redaktor.

[Technology of pump construction] Tekhnologiya naosestreeniiia.
Moskva, Gos.nauchno-tekhn. izd-vo mashinostreit. lit-ry. 1956, 511 p,
(Pumping machinery) (MLRA 9:6)

KERASHKEV, F.S.

- ANTIPOV, K.F., inzhener; BALAKSHIN, B.S., doktor tekhnicheskikh nauk, professor; BARYLOV, G.I., inzhener; BAYZEL'MAN, R.D., inzhener; BERDICHESKII, Ya.G., inzhener; BOBKOV, A.S., inzhener; KALIMIK, M.A., kandidat tekhnicheskikh nauk; KOVAN, V.M., doktor tekhnicheskikh nauk, professor; KORSAKOV, V.S., doktor tekhnicheskikh nauk; KOSILOVA, A.O., kandidat tekhnicheskikh nauk; KUDRYAVTSEV, N.T., doktor khimicheskikh nauk, professor; KURYSHEVA, Ye.S., inzhener; LAKHTIN, Yu.M., doktor tekhnicheskikh nauk, professor; NAYERMAN, M.S., inzhener; NOVIKOV, M.P., kandidat tekhnicheskikh nauk; PARIYSKIY, M.S., inzhener; PEREPONOV, M.N., inzhener; POPILOV, L.Ya., inzhener; POPOV, V.A., kandidat tekhnicheskikh nauk; SAVERIN, M.M., doktor tekhnicheskikh nauk, professor; SASOV, V.V., kandidat tekhnicheskikh nauk; SATEL', E.A., doktor tekhnicheskikh nauk, professor; SOKOLOVSKIY, A.P., doktor tekhnicheskikh nauk, professor [deceased]; STANKOVICH, V.G., inzhener; FRUMIN, Yu.L., inzhener; KHRYAMOV, N.I., inzhener; TSEYTLIN, L.B., inzhener; SHUKHOV, Yu.V., kandidat tekhnicheskikh nauk; BABKIN, S.I., kandidat tekhnicheskikh nauk; VOLKOV, S.I., kandidat tekhnicheskikh nauk; GOROBETS'KIY, I.Ye., doktor tekhnicheskikh nauk, professor; GOBOSHEKIN, A.K., inzhener; DOSCHATOV, V.V., kandidat tekhnicheskikh nauk; ZAMALIN, V.S., inzhener; ISAYEV, A.I., doktor tekhnicheskikh nauk, professor; KEDROV, S.M., kandidat tekhnicheskikh nauk; MALOV, A.M., kandidat tekhnicheskikh nauk; MARDANYAN, M.Ye., inzhener; PANCHENKO, K.P., kandidat tekhnicheskikh nauk; SEKHMETEV, D.M., inzhener; STAYEV, K.P., kandidat tekhnicheskikh nauk; SYROVATCHENKO, P.V., inzhener; TAURIT, G.S., inzhener; SL'YASHEVA, M.A., kandidat tekhnicheskikh nauk;

(Continued on next card)

ANTIPOV, K.F. ---(continued) Card 2.

GRANOVSKIY, G.I., redaktor; DMITRIYEV, F.S., redaktor; SUGOV, V.N.,
redaktor; CHARNKO, D.V., redaktor; Mardas, A.Ye., tseptser, redaktor
[deceased]; SOKOLOVA, T.P., tschekkenetly redaktor

[Machine builder's manual] Spravochnik tekhnicheskogo masinostroyitelia;
v dvukh tomakh, red.sovet V.N.Kosova. Chleny red. soveta S.S.Balaksa
i dr. Moskva, Gos.sauchno-tehnicheskoye izdatelstvo, lit.-py.
Vol. 1. (Pod red. A.G.Kosilova) 1954. 660 s. Vol.2. (Pod red. A.N.
Maleva) 1956. 584 p. (M. 10:9)
(Machinery industry)

KORSAKOV, V.S.

KAPLUNOV, Rafail Samylovich, kandidat tekhnicheskikh nauk, dotsent;
MIRENG, N.Ya., kandidat tekhnicheskikh nauk, dotsent, redakter;
BALAMIDIN, A.F., redakter izdatel'stva; KORSAKOV, V.S., doktor
tekhnicheskikh nauk, retsenzenter; UVAROVA, A.P., tekhnicheskiy
redakter.

[Accuracy of controlling equipment] 'Tochnost' kontrol'nykh prispevok
seblenii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry,
1957. 207 p.

(Measuring instruments)

KORSAKOV, V.S., doktor tekhn.nauk, prof.

Design of gripping devices equipped with "hydro-plastics" used
in machine-tool attachments. Vest.mash. 37 no.10:62-65 O '57.

(MIRA 10:11)

(Machine tools--Attachments) (Deformations (Mechanics))

SHAL'NOV, Valeriy Alekseyevich; KORSAKOV, V.S., prof., doktor tekhn.nauk,
retsensent; FREYDBERG, V.Z., cand.tekhn.nauk, red.; PETROVA, I.A.,
izd.red.; ROZHIN, V.P., tekhn.red.

[Grinding and polishing blades of gas-turbine engines] Shlifo-
vanie i polirovanie lopatok gasoturbinnykh dvigatelei. Moskva,
Gos. izd-vo obor. promyshl., 1958. 349 p. (MIRA 12:1)
(Gas turbines--Blades) (Grinding and polishing)

AUTHORS: Kogan, Ya. I., Pfeyfer, T. A., SOV/32-24-10-19/70
Korsakov, V. V.

TITLE: An Aerosol-Sedimentometric Method for the Determination
of the Composition of Powders and Dust Precipitate
by Means of Dispersed Light (Aerozol'nyy sedimentometricheskiy
metod opredeleniya dispersnogo sostava poroshkov i
pylevykh osadkov)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 10,
pp 1219 - 1224 (USSR)

ABSTRACT: The present methods for the determinations mentioned
in the title exhibit a great many deficiencies. A
method is described which in principle is a spraying
of the powder sample by a short air blow. The particles
of the dust cloud continuously deposit (in calm air)
on the surface of a moving black mirror. The precipitate
is subjected to a photometric investigation in dispersed
light. A schematic representation of the device as well
as an exact description are given. To judge the resolution
of the particles in the aerosol-sedimentometer a number

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An Aerosol-Sedimentometric Method for the Determination SOV/32-24-10-19/70
of the Composition of Powders and Dust Precipitate by Means of
Dispersed Light

of microphotos are given. The photos were made at different sections of the same precipitate of a sample of silicate powder. The quantity $\text{f}(\text{y})$ can be determined visually or photometrically. A device for the polarophot according to Zeiss (Tseyss), which was used in the experiments is shown in a figure. A graphic representation to compare the measuring results obtained according to the microscopic and the photometric method shows their good agreement. In the present paper the microscopic and photometric analyses were carried out by N.A.Savina. A diagram showing the composition of the polish-powders Nr 320 and 180 obtained according to the dispersion determination is given too. There are 9 figures and 1 reference, which is Soviet.

Card 2/3

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An Aerosol-Sedimentometric Method for the Determination SOV/32-24-10-19/70
of the Composition of Powders and Dust Precipitates by Means of
Dispersed Light

Card 3/3

APPROVED FOR RELEASE: 06/14/2000

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25(2)

PHASE I BOOK EXPLOITATION SOV/2830

Korsakov, Vladimir Sergeyevich, Doctor of Technical Sciences, Professor

Raschety i konstruirovaniye prisposobleniy v mashinostroyenii (Design and Construction of Fixtures in Machine Building) Moscow, Mashgiz, 1959.
215 p. Errata slip inserted. 17,000 copies printed.

Reviewer: L.B. Sheynin, Engineer; Ed.: V.V. Sasov, Candidate of Technical Sciences, Docent; Ed. of Publishing House: M.N. Morozova; Tech. Ed.: B. I. Model'; Managing Ed. for Literature on Metalworking and Tool Making (Mashgiz): R.D. Beyzel'man, Engineer.

PURPOSE: This book is intended for tool designers, engineering, and technical personnel, and may also be used by students of schools of higher technical education specializing in machine and tool design.

COVERAGE: This publication contains basic information on the design of fixtures, jigs, and accessories for machine tools. Engineering design principles for holding fixtures are given with special emphasis on locating work pieces in the fixture and the proper use of clamping arrangements to insure foolproof setups and efficiency of operation. The use of various types of bushings

Card 1/5

Design and Construction of Fixtures (Cont.)

SOV/2830

is described. Instruction is given for designing and using checking fixtures and the fundamentals of master tooling are explained. The introduction of automatic fixtures is briefly discussed. Explanatory diagrams and tables and technical drawings are provided. No personalities are mentioned. There are 42 references: 38 Soviet, 7 English, 6 German, and 1 Italian.

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KORSAKOV, V.S.

25(1.6) PAGE 1 BOOK EXPLOSIONS SCR/392

Akademicheskii Institut mashinovedeniya
Osnovnye voprosy tekhnicheskogo zadaniya
izmerenii v mashinostroyeni (Basic Problems of Accuracy, Inter-
changeability and Engineering Measurements in Machine Building)
Moscow, Naukova Dumka, 1983. 311 p. 4,500 copies printed.
Ed.: A.I. Gavrilenko, Doctor of Technical Sciences, Professor;
Vadim S.A. Bok, Doctor of Technical Sciences, Professor; I.V. Kuznetsov, R.D. Myasnikov, Engineer;
Editor: This collection of articles is intended for engineers
and scientists working and for teachers and students of machine
and instrument building trusts.

CONTENTS: This collection of article presents the works of a conference on basic problems of accuracy, interchangeability and engineering measurements, convened in March 1982 by the Machine Building Technology Commission of IMASH All Union (Institute of Machine Construction of the Academy of Sciences, USSR), the State Committee for Higher Education under the Council of Ministers of the Soviet Union, the Ministry of Machine Building and the Ministry of Higher Education of the USSR. In the articles dealing with accuracy of fabrication, problems of the theory and practice of calculating accuracy of standard gauges and standard products are discussed. In the articles on interchangeability and engineering measurements an overview of the present state of this field is presented along with the scientific and engineering outlook for the future. Theoretical and practical problems of automatic inspection are discussed. 80 per cent of the articles are in English. There are 160 references of which 121 are Russian, 10 German, 8 English, 1 French.

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- Kovalev, V.N., Second Scientist and Technician of the USSR, Doctor of Technical Sciences, Professor. Method of Analytical Calculation for Determining Tolerances and Allowances in Connection With the Problem of Accuracy Increases in Machine Building 83
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- Recheter, D.M., Doctor of Technical Sciences, Professor. Influence of Physico-technical Factors on Machining Accuracy in Machine Building 110
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Card 1/8

KORSAKOV, V.S., prof., doktor tekhn.nauk

Problems in automatic control of assembly processes in the
machinery industry. Nauch.dokl.vys.shkoly; mash.i prib. no.1:
120-123 '58. (MIRA 12:1)

1. Predstavлено кафедрой "Tekhnologiya mashinostroyeniya"
Moskovskogo vysshego tekhnicheskogo uchilishcha imeni N.E.
Baumana.

(Automatic control)

KORSAKOV, V.S.

Development of theoretical principles of mechanical engineer-
ing. Nauch.dokl.vys.shkoly; mash.i prib. no.4:113-118 '58.
(MIRA 12:5)

1. Stat'ya predstavlena kafedroy "Tekhnologiya mashinostroyeniya"
Moskovskogo vysshego tekhnicheskogo uchiliashcha im. Baumana.
(Mechanical engineering)

KORSAKOV, Vladimir Sergeyevich, prof., doktor tekhn.nauk; SHEYNIN, L.B.,
Inzh., retsentrant; SASOV, V., dotaent, kand.tekhn.nauk, red.;
MOROZOVA, M.N., red.izd-va; MOISEYEV, B.I., tekhn.red.

[Design and manufacture of attachments in the machine-tool
industry] Raschety i konstruirovaniye prispособлений v mashino-
stroenii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry,
1959. 215 p. (MIRA 12:8)

(Machine tools--Attachments)

KORSAKOV, V. S.

P.2

PHASE I BOOK EXPLOITATION

SOV/3749

Moscow. Vyssheye tekhnicheskoye uchilishche imeni Baumana

Voprosy tochnosti v mashinostroyenii; [sbornik] Problems of Accuracy in Machine Building; Collection of Articles) Moscow Mashgiz, 1960. 159 p. Errata slip inserted. 5,000 copies printed.

Ed.: V.M. Kovav, Doctor of Technical Sciences, Professor; Ed. of Publishing House: G.I. Baydakov; Tech. Ed.: A.Ya. Tikhonov; Managing Ed. for Literature on Metalworking and Tool Making (Mashgiz): V.V. Rzhavinskiy, Engineer.

PURPOSE: This book is intended for the technical personnel of machine-building plants. It may also be useful to process engineers and scientific workers doing research on the accuracy of machined parts

COVERAGE: In this collection of articles faculty members of the Moscow Higher Technical School imeni Bauman (MVTU) discuss methods of calculating errors connected with setting up workpieces in machine tools. The extent of errors in fastening blanks in three-jaw self-centering chucks is also reviewed. Methods of

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Problems of Accuracy in Machine Building (Cont.)

SOV/3749

calculating probable inaccuracies in machined parts and magnitude of errors in centerless grinding are discussed. The effect of nonstability of cutting forces on the accuracy of machining, and factors affecting the accuracy of conjugation of precision plunger pairs are discussed. No personalities are mentioned. References follow some of the articles.

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Korsakov, V.S. [Doctor of Technical Sciences]. Effect of the Instability of Cutting Forces on the Accuracy of Machining	44
Metelkin, A.F. [Candidate of Technical Sciences]. Investigation of Factors Affecting the Accuracy of Conjugate Precision Plunger [-Cylinder] Pairs	85

Card 2/3

GAVRILOV, A.N., prof., doktor tekhn.nauk; DEM'YANYUK, F.S., prof., doktor tekhn.nauk; MITROFANOV, S.P., kand.tekhn.nauk; KORSAKOV, V.S., prof., doktor tekhn.nauk; IVANOV, D.P., doktor tekhn.nauk; STO-ROZHEV, M.V., kand.tekhn.nauk; MALOV, A.N., kand.tekhn.nauk; KUDRYAVTSEV, I.V., prof., doktor tekhn.nauk; SHNEYDER, Yu.G., kand.tekhn.nauk; SHUKHOV, Yu.V., dotsent; KAZAKOV, N.F., kand.tekhn.nauk; ZOLOTYKH, B.N., kand.tekhn.nauk; ROZENBERG, L.D., prof., doktor tekhn.nauk; YAKHIMOVICH, D.Ya., inzh.; NIKOLAEV, G.A., prof., doktor tekhn.nauk; VLADZIYEVSKIY, A.P., doktor tekhn.nauk; SHAUMYAN, G.A., prof., doktor tekhn.nauk; KOSHKIN, I.N., kand.tekhn.nauk; BOBROV, V.P., kand.tekhn.nauk; NOVIKOV, M.P., kand.tekhn.nauk; VIKMAN, V.S., kand.tekhn.nauk; DERBISHER, A.V., kand.tekhn.nauk; KLIMENTKO, K.I., prof., doktor ekonom.nauk; VIATKIN, A.Ye., inzh.; SATEL', E.A., prof., doktor tekhn.nauk; POPOV, I.G., inzh.; MATVEYENKO, V.V., inzh.; KOCHETOVA, G.F., inzh., red.izd-va; EL'KIND, V.D., tekhn.red.; TIKHANOV, A.Ya., tekhn.red.

[Present status and trends of future development of technological processes in the manufacture of machinery and instruments] Sovremennoe sostoianie i napravleniya razvitiia tekhnologii mashinostroeniia i priborostroeniia. Moskva, Gos.sauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 563 p. (MIRA 13:7)

(Machinery industry--Technological innovations)
(Instrument manufacture--Technological innovations) (Automation)

S/191/60/000/006/011/015
B004/B054

AUTHORS: Korsakov, V. S., Lymzin, V. M.

TITLE: The Use of Plastics for the Production of Tools and Machine Body Parts

PERIODICAL: Plasticheskiye massy, 1960, No. 6, pp. 37 - 42

TEXT: The authors discuss the applicability of plastics in the production of various tools and machine parts, and point to the light weight of such parts as compared with metal parts. After briefly mentioning the phenol formaldehyde resins which, due to considerable shrinkage, can only be used for coarse products, they thoroughly deal with the casting of epoxy resins. At present, the types ЭД-5 (ED-5), ЭД-6 (ED-6), ЭД-37 (ED-37), Э-40 (E-40), Э-41 (E-41), and Э-44 (E-44) are available. The hardening agents mentioned are polyethylene polyamides, ethylene diamine, and hexamethylene diamine for cold hardening, and organic acid anhydrides (maleic anhydride) for hardening at 150°C. Plasticizers mentioned are dibutyl phthalate, triphenyl phosphate, castor oil; fillers are iron dust, Portland cement, iron minium, quartz sand, talcum, chalk, gypsum; ✓

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The Use of Plastics for the Production of
Tools and Machine Body Parts

S/191/60/000/006/011/015
B004/B054

polyethylene polyamine. To reduce brittleness, the addition of dibutyl phthalate may be increased to 20-25 parts by weight. Higher strength is attained by reduction of the filler portion to 150 parts by weight as well as by reinforcement. The authors discuss the processing of epoxy resin castings. With abrasive fillers it is necessary to use tools with BK-8 (YK-8) or T15K6 (T15K6) hard alloy. The equipment required for a casting shop, and the protection from the aggressive action of hardening agents are mentioned. The authors point to the good binding between resin and metal, and to the possibility of repairing worn-out parts by applying a new resin layer. There are 3 references: 2 Soviet and 1 US.

Card 3/3

MALOV, Aleksey Nikolayevich, prof.; KORSAKOV, V.S., doktor tekhn. nauk,
retsenzent; IVANOVA, N.A., red. izd-va; UVAROVA, A.P., tekhn. red.

[Mechanization and automation of universal machine tools] Mekhani-
zatsiya i avtomatizatsiya universal'nykh metallorezhushchikh stan-
kov. Moskva, Mashgiz, 1961. 598 p. (MIRA 14:10)
(Machine tools—Technological innovations)
(Automation)

KORSAKOV, Vladimir Sergeyevich; NOVIKOV, Mikhail Pavlovich; PANTELEYEV,
V.V., inzh., retsentent; BAZHENOV, D.V., inzh., red. graficheskikh
rabot; YAKOVLEVVA, V.I., red.; MODEL', B.I., tekhn. red.

[Manual on the mechanization and automation of assembling opera-
tions] Spravochnik po mekhanizatsii i avtomatizatsii sborochnykh
rabot. Moskva, Mashgiz, 1961. 373 p. (MIRA 15:2)
(Assembly-line methods)

PHASE I BOOK EXPLOITATION SOV/5760

Korsakov, Vladimir Sergeyevich, Doctor of Technical Sciences,
Professor

Tschnost' mekhanicheskoy obrabotki (Accuracy in Machining) Moscow,
Mashgiz, 1961. 378 p. Errata slip inserted. 10,000 copies
printed.

Reviewer: I. M. Kolesov, Candidate of Technical Sciences; Ed.:
V. I. Mitin, Engineer; Ed. of Publishing House: V. V.
Rzhavinskiy; Tech. Ed.: T. F. Sokolova; Managing Ed. for
Literature on Cold Treatment of Metals and Machine-Tool
Making: V. V. Rzhavinskiy, Engineer.

PURPOSE : This book is intended for process engineers in the
machine industry; it may also be used by students in mechanical-
engineering schools of higher education.

COVERAGE: A series of problems relating to machining accuracy
is reviewed. The effect of various process factors on the

Card

Accuracy in Machining**SOV/5760**

occurrence of initial errors is analyzed, and the determination of the composite error is discussed. The book gives expression to the results of scientific research work and generalizes available reference and production data. The data presented are illustrated with tables, graphs, and calculations of machining errors. Methods of improving machining accuracy are also reviewed. The following are mentioned as having contributed to the study of accuracy: B. S. Balakshin, N. A. Borodachev, A. N. Gavrilov, A. A. Zykov, V. M. Kovar, D. N. Reshetov, E. A. Satel', A. P. Sokolovsky, and A. B. Yakhin; and the LPI and the Moscow Institute of Machine Tools and Instruments. The analytical and experimental investigations performed by the author at MVNU in Bauman were used as the basis of this book. There are 97 references: 84 Soviet, 7 German, and 6 English.

Card 2/9

22020

S/145/61/000/003/005/006
D211/D304

15-84410 also 2209

AUTHOR: Korsakov, V.S., Professor, Doctor of Technical Sciences

TITLE: Application of plastics for making fixtures and auxiliary instruments for the machine-building industry

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, mashinostroyeniye, no. 3, 1961, 88 - 95

TEXT: A variety of instruments, jigs, fixtures and gauges for mechanical assembly lines can be made quickly and cheaply from plastics. However, not all plastics are equally suitable. The use of phenol-formaldehyde and ethylene plastics is limited on account of their high shrinkage, low strength and brittleness. A number of factories use plastics based on acrylic resins. The self-hardening varieties AST-T and "Stirocrl" are used for dies and gauges. The widest use is made of epoxy resins which are synthetic polyesters.

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D241/D304

Application of plastics ...

ters. Epoxy resins designated ED-5, 6 and 37 and E-40, 41 and 44 are produced. Amines (polyethylenepoly amine, ethylene-diamine, hexa-methylenediamine) or anhydrides of organic dibasic acids are used as hardeners. Support strength of castings in epoxy resins is increased by addition of elasticizers (dibutylphthalate, triphenyl-phosphate or castor oil). The following substances are used as fillers: iron powder, Portland cement, ferric oxide, graphite, quartz sand, talcum, chalk, gypsum, kaolin, asbestos fiber, glass fiber or cloth, wood filings, zinc oxide, and ground pieces of used epoxy resin castings. Addition of these increases the mechanical properties and lowers costs. Asbestos fiber increases impact strength and glass fiber increases bending strength. Epoxy resins have a very low shrinkage (0.03 to 0.4%), low density (1.15 to 1.25) and good adhesion to metals, ceramics and other materials. When hardened their Brinell hardness is up to 20 kg/mm², tensile strength up to 6 kg/mm², compression strength up to 13 kg/mm² and impact 12 kgm/cm². Absorption of moisture or other coolants used

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D217/D304

Application of plastics ...

in machining is very small: 0.2 to 0.5 gm/dcm² over 5 days when saturation is reached. Wear resistance (which can be increased by adding aluminum oxide or bright graphite) is similar to that of aluminum alloys. Coefficient of temperature expansion varies from $90 \cdot 10^{-6}$ to $20 \cdot 10^{-6}$. Castability is good and no gas is given off on hardening. The resins are highly stable, non-toxic, do not cause corrosion of inserted metals and have high dielectric properties. The working temperature is up to 140°C. and heat resistance can be increased by fillers of aluminum oxide and graphite. Full decomposition takes place at 350°C. Components in epoxy resins are made by casting. For one-time production, forms are made of gypsum from wooden models. For quality forms, surgical gypsum is used and large forms are reinforced by putting cloth around the model after the first layer of gypsum. The form is then dried at room temperature and then at 50 to 60°C. Before casting, surfaces of the form are coated with a separating mixture: a 25% solution of wax in tri-chlorethylene, solution of polyisobutylene in gasoline, grease or

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wax. For making complex components, a model can be made in wax or its substitute. When the form dries round it, the model is removed by melting. Simple forms can be constructed directly from cardboard, if necessary strengthened by metal ribs on the outside. Double curvatures can be formed in plasticine and superimposed. Accurate holes are obtained by fixing gauge pins in the form. Similarly, internal threads can be formed. A number of components (studs, inserts, bushes) can be bonded in the casting after thorough degreasing. Stressed parts of castings should be strengthened by inserts in the form of metal ribs or tubes. Templates are made simply by bolting bushes in their positions on a plate at the bottom of a shallow box and filling the space between them with the resin. Bodies for portable instruments can be cast in epoxy resins for lightness. Many casting compositions have been developed, but a typical one in parts by weight to be mixed in the order given is as follows: - 100 parts of epoxy resin ED-6 or ED-40; 200 parts of filler (ferric oxide, iron powder, marshalite etc.); 15 to 20 parts (or more to reduce

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brittleness) of dibutylphthalate; 8 to 9 of polyethylenepolyamine (this is added 5 to 10 minutes before casting). This mixture remains usable for 30 to 40 minutes. Strength is increased by reducing the amount of powder filler and adding glass or asbestos fiber. Turning or milling of epoxy resins is done without a cooler by ordinary tools (with hard tips for abrasive fillers). A cutting speed of 100 m/min and feed of 0.1 to 0.2 mm/rev can be used.

ASSOCIATION: MVTU im. N.E. Baumana (Moscow Technological College (MVTU) im. N.E. Bauman)

SUBMITTED: July 12, 1960

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"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824920017-8

KORSAKOV, V.S., doktor tekhn.nauk

Design a standard technical equipment for automatic assembly.
Mashinostroitel' no.3:22-23 Mr '62. (MIRA 15:3)
(Assembly-line methods) (Automation)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824920017-8"

KORSAKOV, V.S., doktor tekhn.nauk, prof.

Equipment used in the automation of assembling processes. Vest.
mash. 42 no.4:58-64 Ap '62. (MIRA 15:4)
(Assembly line methods) (Automation)

KORSAKOVA(Bayba), N.S., red.; KUZ'MINA, N.S., tekhn. red.

[Medical literature of the U.S.S.R.; an index of books and articles for the second half of 1958] Nauchnaia meditsinskaia literatura SSSR; ukazatel' knig i statei za vtoroe polugodie 1958 g. Sost. Bibliograficheskim otdelom GTsNMB. Pod red. N.S. Korsakovo (Baiba). Moskva, Medgiz, 1961. 888 p.

(MIRA 15:7)

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prof., retsenszent; NOVIKOV, M.P., kand. tekhn.nauk, red.;
STROGANOV, L.P., inzh., red.; EL'KIND, V.D., tekhn. red.

[Mechanization of assembling operations in the instrument
industry] Mekhanizatsiya sborochnykh rabot v priborostroenii.
Moskva, Mashgiz, 1963. 466 p. (MIRA 17:2)

BOBKHOVA, L.P.; KORSAKOV, V.S.; ROMANOV, L.M.; YENIKOLOPYAN, N.S.

Polymerization of formaldehyde. Part 3: Effect of active addition
agents on the polymerisation of formaldehyde in solutions.
Vysokom. soed. 5 no.11:1653-1657 N '63. (MIRA 19:1)

1. Institut khimicheskoy fiziki AN SSSR.

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5 no.12:1780-1784 D '63. (MIRA 17:1)

1. Institut khimicheskoy fiziki AN SSSR.

ARTOBOLEVSKIY. S T. [deceased], KORSAKOV, V.S., doktor tekhn.nauk,
prof., rotsenzenz; PREYS, V.F., dokto. tekhn.nauk, prof.,
nauchn.red.

[Industrial automatic machines] Tekhnologicheskie mashiny-
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(MIRA 17:12)

BRAVICHEV, V.A., dots., kand. tekhn. nauk; KORSAKOV, V.S., tekhn.
nauk, prof., retsenzent; OKHLYAND, A.B., inzh., red.;
SEMENCHENKO, V.A., red. izd-va; DEMKINA, N.F., tekhn. red.

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ustroistva metallorezhushchikh stankov. Moskva, Izd-va
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RABINOVICH, Abram Nakhimovich; KORSAKOV, V.S., doktor tekhn.
nauk, retsenzent

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Avtomatizatsiya mekhano-sborochnogo proizvodstva. Kiev,
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retsenzenter; YELIZAVETIN, M.A., kand. tekhn. nauk, red.

[Fundamentals of the design of attachments in the machinery
industry] Osnovy konstruirovaniia prisposoblenii v masi-
nostroenii. Izd.2., dop. i perer. Moskva, Mashinostroenie,
(MIRA 18:1)
1965. 359 p.

RECORDED IN THE COMMUNICATIONS

ARCHIVE, NO. 1, 1965, 86-22

RECORDED BY MAGNETIC TAPE

BY DIRECT METHODS

APPROVAL NUMBER: AP5015102

a) by direct two-phase current from a selenium rectifier; b) a direct current source; c) an alternating current source; d) an alternating current source with a rectifier.

2. The following methods:

a) Direct two-phase current from a selenium rectifier; b) a direct current source; c) an alternating current source; d) an alternating current source with a rectifier.

3. No

Planned

ENCL. 10

ATTACHMENT

POLARIS

EX

KORSAKOV, Ye.

Mixed output norms for mechanized loading and unloading at seaports.
Sots. trud no.10:56-61 O '56. (MIRA 9:11)
(Loading and unloading--Production standards)
(Harbors)

~~KORSAKOW~~

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(Wages) (Merchant Marine--Production standards)

KORSAKOV, Ye., shturman dal'nego plavaniya.

Some potentialities for increasing labor productivity of ship crews.
(MIRL 10:3)
Mor.flot 17 no.3:4-6 Mr '57.
(Merchant marine--Manning)
(Freighters)

VETRENKO, L.; KORSAKOV, Ye.

Essential aspects of wage regulation of seaport workers.
Sots. trud. 4 no.4:48-53 Ap '59. (MIRA 12:6)
(Longshoremen) (Wages)

KORSAKOV, Ye.

New wages for the merchant marine. Sots.trud 5 no.3:40-47 Mr
'60. (Merchant marine) (Wages) (MIRA 13:6)

KORSAKOV, Ye.; PEREGRUTOV, V.

On loading and unloading works in seaports. Sots. trud 7 no.11:117-122
(MERA 15:12)

N '62.

(Wages—Longshoremen)

(Bonus system)

KORSAKOV, Ye.

Extend the integration of several functions on ships. Mar.
(MIRA 18:8)
flot. 24 no.11;18-19 N '64.

1. Glavnyy inspektor po morskому flotu Gosudarstvennogo komiteata
Soveta Ministrov SSSR po voprosam truda i zarabotnoy platy.

KORSAKOV, Ye.; SASOVA, R.

Raise the establishing of technical norms to the level of
current requirements and tasks. Mor.flot 25 no.6:4-6 J1 '65.
(MIRA 1981)

1. Glavnnyy inspektor po morskому flotu Gosudarstvennogo komiteta
Soveta Ministrov SSSR po voprosam truda i zarabotnoy platy (for
Korsakov). 2. Starshiy inspektor po morskому flotu Gosudarstven-
nogo komiteta Soveta Ministrov SSSR po voprosam truda i zarabotnoy
platy (for Sasova).

18102-67 EWP(m)/EWP(f) FDN/DJ
ACC NR: AP6029989 (A,N)

SOURCE CODE: UR/0413/66/000/015/0-2/11/1

INVENTOR: Zhdanov, K. I.; Nogtev, L. M.; Alekseyev, I. L.; Korshakov, Ye. P.
Xan'shin, I. P.; Solomko, S. R.

ORG: none

TITLE: Variable-pitch propeller. Class 62, No. 184147

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 195

TOPIC TAGS: aircraft propeller, propeller blade, propeller pitch control, hydraulic servomechanism, servosystem

ABSTRACT: An Author Certificate has been issued for a variable-pitch propeller consisting of a hub (with blades mobilely attached) and a cylinder containing a variable-pitch mechanism and a control unit. The propeller is equipped with a hydraulic control unit, connected with the aircraft's hydraulic system, for the automatic control of propeller pitch and the engine's gas while assuring constant rpm and a minimal fuel expenditure. The control unit includes main and emergency regulators with control valves and servomechanisms consisting of servopistons with racks and pinions connected by a flexible coupling, one with the propeller's variable-pitch mechanism and the other with the engine's fuel-supply system. In order to remotely control propeller pitch and simultaneously adjust the propeller pitch for thrust, it can be equipped with a servosystem consisting of a spring-supported control valve and a tracking bushing for changing the propeller's pitch. To assure the

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ACC NR: AP6029989

delayed change of the propeller blades to the angle ϕ° in case of the decompression of the large-pitch channel, the propeller contains a throttle system consisting of a spring-supported plunger with a throttle opening. [SA]

SUB CODE:01,09,13/ SUBM DATE: 08Aug62

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2/2 Mle

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CIA-RDP86-00513R000824920017-8"

KORSAKOV, Yu.P.

Diagnosis of sarcoidosis in children. Probl. tub. 42 no.11:76-77
'64.

(MIRA 18:8)

1. Detskoye otdeleniye (zav. Yu.P.Korsakov) Bryanskogo oblastnogo
protivotuberkuleznogo dispansera (glavnnyy vrach T.V.Grishayeva).